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## **Accreditation No: LAB 128**

**Awarded to**

### **Provincial Reference Fertilizer Testing Laboratory, Near Govt: Degree College for Women, Raiwind, Lahore, Pakistan**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **18-12-2017** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **17-12-2020**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

**PAKISTAN NATIONAL ACCREDITATION COUNCIL**

18-12-2017  
Date

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Director General

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### Testing Laboratory.

Accreditation Scope of Provincial Reference Fertilizer Testing Laboratory, Near Govt: Degree College for Women, Raiwind, Lahore, Pakistan

Permanent laboratory premises

Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577- 1:2003)/ Internal method reference
Phosphate Fertilizer Solid	Chemical testing	Citrate soluble phosphorus estimation	Pakistan standard for Single Super Phosphate (2 <sup>nd</sup> edition) PS: 67-1996. PSQCA. Karachi
Phosphate Fertilizer Liquid	Chemical testing	Citrate soluble phosphorus estimation	Pakistan standard for Single Super Phosphate (2 <sup>nd</sup> edition) PS: 67-1996. PSQCA. Karachi
Phosphate Fertilizer Liquid	Chemical testing	Total phosphorus estimation	Pakistan standard for Single Super Phosphate (2 <sup>nd</sup> edition) PS: 67-1996. PSQCA. Karachi
Potassium Fertilizer Solid	Chemical testing	Water soluble potassium estimation	Testing Methods for Fertilizers (2013). Incorporated Administrative Agency. Food and Agricultural Materials Inspection Center. Japan.
Potassium Fertilizer Liquid	Chemical testing	Water soluble potassium estimation	Testing Methods for Fertilizers (2013). Incorporated Administrative Agency. Food and Agricultural Materials Inspection Center. Japan.
Potassium Fertilizer Solid Mixed	Chemical testing	Water soluble potassium estimation	Testing Methods for Fertilizers (2013). Incorporated Administrative Agency. Food and Agricultural Materials Inspection Center. Japan.
Potassium Fertilizer Liquid Mixed	Chemical testing	Water soluble potassium estimation	Testing Methods for Fertilizers (2013). Incorporated Administrative Agency. Food and Agricultural Materials Inspection Center. Japan.
Nitrogen Fertilizers Liquid	Chemical testing	Ammonical nitrogen estimation	<b>i.</b> Tandon HLS (Ed.) 2009. Methods of Analysis of Soils, Plants, Waters, Fertilizer and Organic Manures Fertilizer Development and Consultation Organization, New Delhi. Pp 161-162 <b>ii.</b> Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current through Revision, 4, 2011. Method No. 2.4.10 (AOAC Official Method 892.01), Fertilizers Chapter 2 Page 16.

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Nitrogen Fertilizers Solid	Chemical testing	Nitrate nitrogen estimation	<p><b>i.</b> Tandon HLS (Ed.) 2009. Methods of Analysis of Soils, Plants, Waters, Fertilizer and Organic Manures Fertilizer Development and Consultation Organization, New Delhi. Pp 161-162</p> <p><b>ii.</b> Official Methods of Analysis of AOAC International, 18<sup>th</sup> Edition, 2005, Current through Revision, 4, 2011. Method No. 2.4.10 (AOAC Official Method 892.01), Fertilizers Chapter 2 Page 16.</p>
Nitrogen Fertilizer Liquid	Chemical testing	Total nitrogen estimation	<p><b>i.</b> Tandon HLS (Ed.) 2009. Methods of Analysis of Soils, Plants, Waters, Fertilizer and Organic Manures Fertilizer Development and Consultation Organization, New Delhi. Pp 161-162</p> <p><b>ii.</b> Official Methods of Analysis of AOAC International, 18<sup>th</sup> Edition, 2005, Current through Revision, 4, 2011. Method No. 2.4.10 (AOAC Official Method 892.01), Fertilizers Chapter 2 Page 16.</p>
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Nitrogen Fertilizer Solid	Chemical testing	Ureic nitrogen estimation	<p><b>i.</b> Tandon HLS (Ed.) 2009. Methods of Analysis of Soils, Plants, Waters, Fertilizer and Organic Manures Fertilizer Development and Consultation Organization, New Delhi. Pp 161-162</p> <p><b>ii.</b> Official Methods of Analysis of AOAC International, 18<sup>th</sup> Edition, 2005, Current through Revision, 4, 2011. Method No. 2.4.10 (AOAC Official Method 892.01), Fertilizers Chapter 2 Page 16.</p>
Nitrogen Fertilizer Liquid	Chemical testing	Ureic nitrogen estimation	<p><b>i.</b> Tandon HLS (Ed.) 2009. Methods of Analysis of Soils, Plants, Waters, Fertilizer and Organic Manures Fertilizer Development and</p>

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			Consultation Organization, New Delhi. Pp 161-162 ii. Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current through Revision, 4, 2011. Method No. 2.4.10 (AOAC Official Method 892.01), Fertilizers Chapter 2 Page 16.
Zinc Fertilizer Solid	Chemical testing	Water soluble zinc estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Zinc Fertilizer Liquid	Chemical testing	Water soluble zinc estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Zinc Fertilizer Solid Mixed	Chemical testing	Acid soluble zinc estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Zinc Fertilizer Liquid Mixed	Chemical testing	Acid soluble zinc estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Iron Fertilizer Solid	Chemical testing	Water soluble iron estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Iron Fertilizer Liquid	Chemical testing	Water soluble iron estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
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Copper Fertilizer Solid	Chemical testing	Water soluble copper estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
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Copper Fertilizer Liquid Mixed	Chemical testing	Acid soluble copper estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Manganese Fertilizer Solid	Chemical testing	Water soluble manganese estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Manganese Fertilizer Liquid	Chemical testing	Water soluble manganese estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
Manganese Fertilizer Solid Mixed	Chemical testing	Acid soluble manganese estimation	Official Methods of Analysis of AOAC International, 18 <sup>th</sup> Edition, 2005, Current Through Revision, 4, 2011. Method No. 2.6.01 (AOAC Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
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			Official Method 965.09), Fertilizers Chapter 2, Subchapter 6, Page 29-30
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